



To Be Precise.



CCM 1200

Universal Automatic Cable Cutting Machine

OPERATING INSTRUCTIONS

Version 06 / 96

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Safety regulations english

1. Symbols



Please follow the jobs and procedures marked with this pictogram precisely. Noncompliance can lead to death or severe injuries.



Please follow the jobs and procedures marked with this pictogram precisely. Noncompliance can lead to minor injuries and to damage to the machine.



This pictogram indicates tips and tricks from our development department, production department and customer service department.

2. Product description

The CCM 1200 automatic cropper cuts round cable, wires and tubing up to an external diameter of 10 mm into any desired length. The automatic unit is easy to program and to operate. Apart from the opening of the feed rollers, mechanical settings and adjustments are not necessary. The CCM 1200 works without compressed air, and is therefore quiet in use. The automatic unit receives and processes signals from upstream or downstream units via a control input. This allows, for example, operation with a pedal or the control of an embossing machine.

3. Responsibilities

The operator of the machine bears the responsibility for ensuring that every person who works with the Schleuniger CCM 1200 receives precise instruction from the operating instructions provided (set-up, operation, maintenance). The training of the operation personnel must include the following points:

- Intended use of the machine (see Section "2 Product description").
- Danger areas (see Section "5 Danger areas").
- Safety requirements (see Section "6 Safety requirements").
- Operation of the machine in accordance with the operating instructions provided.

4. Personal qualifications

In order to that all the instructions be understood, the training must take place in the language of the operating personnel. Consequently the following personal qualifications are required:

Installation, set-up, instruction	Technical skilled personnel who have mastered English and/or German as well as the language of the operating personnel.
Operation	Staff trained in accordance with "3 Responsibilities".
Maintenance, service	Technical skilled personnel who have mastered English or German

5. Danger areas

Please pay attention to the following danger areas with particular care:



- The area of the rollers which are used to feed the cable
- The area of the cable cutting equipment (cutter head)
- The area of the cable outlet (must always be kept free!)
 - Special care of sensitive parts of the body, for example, the eyes, is necessary, as the cable can exit the CCM 1200 at high speed!
- The complete interior of the CCM 1200
 - danger of electrical shock on contact
 - danger from mechanically moving parts

6. Safety requirements



- This machine has been designed in accordance with the European Standard EN294 for persons above the age of 14 years. It is strictly forbidden to allow access to the machine to persons younger than this age.
- Never operate the machine in environments where there is a risk of fire or explosion.
- The machine must only be operated in rooms that are dry and free from dust.
- Never operate the machine without its protective covers.
- Never work on the machine without wearing eye protection.
- Disconnect the machine from the electrical and/or compressed air supply before carrying out any maintenance work.
- Never operate the machine with the mains earth disconnected.
- Do not make any modifications to the machine and only utilise it for its intended purpose according to Paragraph "2. Product Description". Other applications are only permitted with the written approval of the manufacturer. The manufacturer will accept no liability for damage resulting from the disregard of this regulation.
- Never operate the machine without first having read through and understood all instructions.
- Repair work may only be carried out by authorised persons who have been specially trained for this work.
- Ensure that long hair is not worn loose, and do not wear loose clothing or ornaments that could become caught in the moving parts of the machine.
- Only use the lubricant that was delivered with this machine according to these operating instructions.

Sicherheitsvorschriften deutsch

1. Symbole



Bitte befolgen Sie Arbeiten und Abläufe, die mit diesem Piktogramm markiert sind genau. Nichtbefolgen kann zum Tod oder schweren Körperverletzungen führen.



Bitte befolgen Sie Arbeiten und Abläufe, die mit diesem Piktogramm markiert sind genau. Nichtbefolgen kann zu leichten Körperverletzungen und zu Schäden an der Maschine führen.



Dieses Piktogramm kennzeichnet Tips und Tricks aus unserer Entwicklungsabteilung, aus der Produktion und von unserem Kundendienst.

2. Produktebeschreibung

Der Ablängautomat CCM 1200 schneidet Rundkabel, Drähte, Schläuche in jede gewünschte Länge bis zu einem Aussendurchmesser von 10 mm. Der Automat ist komfortabel programmier- und bedienbar. Mechanische Einstellungen und Justierungen sind bis auf den Durchlass der Vorschubrollen nicht erforderlich. Der CCM 1200 arbeitet ohne Druckluft, und ist deshalb leise. Über einen Steuereingang empfängt und verarbeitet der Automat Signale von einem vor- oder nachgeschalteten Gerät. Dies erlaubt beispielsweise die Bedienung mit einem Pedal oder das Steuern eines Prägegerätes.

3. Verantwortlichkeiten

Der Betreiber der Maschine trägt die Verantwortung, dass jede Person, die mit dem Schleuniger CCM 1200 arbeitet, anhand der vorliegenden Betriebsanleitung genau instruiert worden ist (Setup, Bedienung, Instandhaltung). Die Ausbildung des Bedienpersonals muss folgende Punkte enthalten:

- Verwendungszweck der Maschine (siehe Abschnitt "2. Produktebeschreibung").
- Gefährdungsbereiche (siehe Abschnitt "5. Gefährdungsbereiche").
- Sicherheitsbestimmungen (siehe Abschnitt "6. Sicherheitsbestimmungen").
- Bedienung der Maschine entsprechend der vorliegenden Betriebsanleitung.

4. Personalqualifikationen

Damit alle Instruktionen verstanden werden, muss die Schulung in der Sprache des Bedienpersonals erfolgen. Somit sind folgende Personalqualifikationen erforderlich:

Montage, Inbetriebnahme, Instruktion	Technische Fachkräfte, welche englisch und/oder deutsch sowie die Sprache des Bedienpersonals beherrschen.
Bedienung	Gemäss "3. Verantwortlichkeiten" geschulte Mitarbeiter.
Unterhalt, Service	Technische Fachkräfte, welche englisch oder deutsch beherrschen

5. Gefährdungsbereiche

Bitte beachten Sie die folgenden Gefährdungsbereiche mit besonderer Vorsicht:



- Bereich der Rollen, welche der Kabelförderung dienen
- Bereich der Kabelschneidvorrichtung (Schneidkopf)
- Bereich des Kabelaustrettes (muss stets freigehalten werden!)
 - Besondere Vorsicht ist bei empfindlichen Körperteilen geboten, z.B. Augen, da das Kabel mit hoher Geschwindigkeit aus dem CCM 1200 austreten kann!
- Gesamter Innenraum des CCM 1200
 - Gefahr durch elektrische Spannung bei Berührung
 - Gefahr durch mechanisch bewegte Teile

6. Sicherheitsbestimmungen



- Die Maschine wurde gemäss der Europäischen Norm EN294 für Personen über 14 Jahre ausgelegt. Es ist strikte verboten, jüngeren Personen Zutritt zu der Maschine zu gewähren.
- Betreiben Sie die Maschine nie in explosions- oder feuergefährdeter Umgebung.
- Die Maschine darf nur in trockenen, staubfreien Räumen betrieben werden.
- Betreiben Sie die Maschine nie ohne Schutzabdeckung.
- Arbeiten Sie nie ohne Augenschutz an der Maschine.
- Trennen Sie die Maschine vom elektrischen Stromanschluss und/oder von der Druckluft, bevor Sie irgendwelche Unterhaltsarbeiten vornehmen.
- Betreiben Sie die Maschine nie ohne angeschlossene Schutzerde.
- Ändern Sie die Maschine nicht ab und setzen Sie sie nur für den vorgesehenen Verwendungszweck ein, gemäss Abschnitt "2. Produktebeschreibung". Andere Verwendungszwecke sind nur mit schriftlicher Zustimmung des Herstellers zulässig. Für Schäden, die aus dem Missachten dieser Vorschrift entstehen, lehnt der Hersteller jede Haftung ab.
- Betreiben Sie die Maschine nicht, bevor Sie alle Anweisungen gelesen und verstanden haben.
- Instandhaltungsarbeiten dürfen nur berechtigte und für diese Tätigkeit ausgebildete Personen durchführen.
- Tragen Sie lange Haare nicht offen, tragen Sie keine losen Kleider oder losen Schmuck, damit Sie sich in beweglichen Teilen der Maschine nicht verfangen können.
- Benutzen Sie mitgelieferte Schmiermittel ausschliesslich entsprechend der vorliegenden Betriebsanleitung.

Prescriptions de sécurité français

1. Symboles



Veuillez respecter exactement les travaux et les déroulements marqués par ce pictogramme. Le non-respect peut entraîner la mort ou des blessures physiques graves.



Veuillez respecter exactement les travaux et les déroulements marqués par ce pictogramme. Le non-respect peut entraîner des blessures physiques légères ou des détériorations de la machine.



Ce pictogramme signale des conseils et des astuces de notre service de développement, de la production et de notre service après vente.

2. Description des produits

La tronçonneuse automatique CCM 1200 coupe les câbles ronds, les fils métalliques, les tubes flexibles à la longueur souhaitée jusqu'à un diamètre extérieur de 10 mm. L'automate est facile à programmer et à manipuler. Des réglages et ajustages mécaniques ne sont pas nécessaires à part ceux des rouleaux d'avance. La tronçonneuse CCM 1200 travaille sans air comprimé et est donc, en conséquence, silencieuse. L'automate reçoit et traite des signaux par une entrée de commande provenant d'un appareil monté en amont ou en aval. Ceci permet, par exemple, la commande à partir d'une pédale ou de piloter un appareil à gaufrer.

3. Responsabilités

L'exploitant de la machine est responsable du fait que toute personne travaillant avec le Schleuniger CCM 1200 ait été informée de façon précise à l'aide du présent manuel d'instructions de service (mise en service, commande, entretien). La formation des opérateurs doit comporter les points suivants:

- Application de la machine (voir point "2. Description des produits").
- Zones de dangers (voir point "5. Zones de dangers").
- Dispositions de sécurité (voir point "6. Dispositions de sécurité").
- Commande de la machine conformément à ce manuel d'instructions de service.

4. Qualifications du personnel

Afin que toutes les instructions soient comprises, la formation doit se faire dans la langue des opérateurs. Les qualifications suivantes sont donc nécessaires pour le personnel:

Montage, mise en service, instruction	Techniciens qualifiés qui maîtrisent l'anglais et/ou l'allemand ainsi que la langue des opérateurs.
Commande	Employés formés conformément au point "3. Responsabilités".
Entretien, service après vente	Techniciens qualifiés qui maîtrisent l'anglais ou l'allemand

5. Zones de dangers

Veuillez faire particulièrement attention aux zones de dangers suivantes:



- Zone des rouleaux qui servent au transport du câble
- Zone du dispositif de coupe du câble (tête de coupe)
- Zone de sortie du câble (doit être constamment maintenue libre!)
 - Une prudence particulière est requise dans le cas de parties corporelles sensibles, p.ex. les yeux, car le câble peut sortir à haute vitesse hors de la CCM 1200!
- Tout l'intérieur de la CCM 1200
 - Danger en cas de contact avec la tension électrique
 - Danger présenté par les pièces mobiles

6. Dispositions de sécurité



- La machine a été conçue pour des personnes âgées de plus de 14 ans conformément à la norme européenne EN294. Il est strictement interdit d'accorder l'accès à la machine à des personnes plus jeunes.
- Ne pas utiliser la machine dans un environnement déflagrant ou inflammable.
- La machine ne doit être mise en service que dans des locaux secs exempt de poussière.
- Ne jamais faire fonctionner la machine sans capot protecteur.
- Ne jamais travailler sur la machine sans lunettes de protection.
- Avant de procéder à des tâches quelconques de maintenance, débrancher la machine de l'alimentation électrique et/ou de celle d'air comprimé.
- Ne jamais se servir de la machine sans branchement de mise à la terre.
- Ne pas modifier la machine et ne l'employer que pour l'usage auquel elle a été destinée, conformément au paragraphe "2. Description du produit". L'emploi à d'autres usages n'est admis que moyennant autorisation écrite du constructeur. Celui-ci décline toute responsabilité pour des dommages consécutifs à l'inobservation de cette prescription.
- Ne pas mettre la machine en service avant d'avoir lu et compris les instructions s'y rapportant.
- Seules des personnes autorisées et instruites à cet effet sont qualifiées pour procéder aux travaux de maintenance de la machine.
- Ne pas porter de longs cheveux libres, de vêtements ou bijoux flottants afin de n'être pas happé par des pièces mobiles de la machine.
- N'employer exclusivement que les lubrifiants inclus dans la fourniture conformément au mode d'emploi.

Norme di sicurezza italiano

1. Simboli



Vogliate osservare molto attentamente lavori e decorsi, che sono contrassegnati con questo pittogramma. La non osservanza può provocare la morte o gravissime lesioni personali.



Vogliate osservare molto attentamente lavori e decorsi, che sono contrassegnati con questo pittogramma. La non osservanza può provocare lievi lesioni personali e danni alla macchina.



Questo pittogramma contrassegna suggerimenti ed espedienti da parte de l nostro reparto progettazione, della produzione e della nostra assistenza tecnica clienti.

2. Descrizione del prodotto

La troncatrice automatica CCM 1200 taglia cavi a sezione circolare, fili metallici, tubi flessibili in qualsiasi lunghezza desiderata fino ad un diametro esterno di 10 mm. Questa macchina automatica è confortevole da programmare e utilizzare. Le impostazioni meccaniche non sono necessarie fino al passaggio dei rulli di alimentazione. La CCM 1200 lavora senza aria compressa e, pertanto, è silenziosa. La macchina riceve ed elabora i segnali di un apparecchio inserito a valle o a monte attraverso un'entrata di comando. Questo consente ad esempio l'impiego della macchina con un pedale o il comando di un apparecchio per stampaggio a rilievo.

3. Responsabilità

L'esercente della macchina è responsabile che ogni persona, che lavora con il Schleuniger CCM 1200, sia stata correttamente istruita in base alle presenti istruzioni sull'uso (messa in esercizio, comando, manutenzione). La formazione del personale addetto al comando della macchina deve abbracciare i seguenti punti:

- Uso conforme della macchina (vedi sezione "2. Descrizione del prodotto").
- Campi di pericolosità (vedi sezione "5. Campi di pericolosità").
- Disposizioni di sicurezza (vedi sezione "6. Disposizioni di sicurezza").
- Comando della macchina secondo le presenti istruzioni sull'uso.

4. Qualificazione del personale

Per essere sicuri che le istruzioni sono state capite, la formazione deve avere luogo nella lingua del personale addetto alla macchina. A questo fine sono richieste le seguenti qualificazioni del personale:

Montaggio, messa in funzione, istruzioni	Personale tecnico specializzato, che padroneggia l'inglese e/o il tedesco nonché la lingua del personale addetto alla macchina.
Comando	Collaboratori esperti secondo sezione "3. Responsabilità".
Manutenzione, service	Personale tecnico specializzato, che padroneggia l'inglese o il tedesco.

5. Campi di pericolosità

Vogliate usare particolare precauzione nei seguenti campi di pericolosità:



- Zona dei rulli che servono all'alimentazione dei cavi.
- Zona del dispositivo di taglio dei cavi (testa di taglio).
- Zona di uscita dei cavi (deve sempre essere mantenuta libera!).
 - È necessario prestare particolare cautela per le parti del corpo più delicate, ad esempio gli occhi, poiché il cavo può uscire dalla CCM 1200 a velocità sostenuta!
- L'intera parte interna della CCM 1200 .
 - Pericolo di folgorazione in caso di contatto.
 - Pericolo per i pezzi mobili azionati meccanicamente.

6. Disposizioni di sicurezza



- La macchina è stata progettata secondo la Norma Europea EN294 per persone con più di 14 anni d'età. È severamente vietato fare accedere alla macchina persone di età inferiore.
- Non mettere mai in funzione la macchina in un ambiente a rischio di esplosione o d'incendio.
- La macchina deve essere messa in funzione unicamente in locali asciutti e privi di polvere.
- Non mettere mai in funzione la macchina quando la stessa è sprovvista dell'apposito carter di protezione.
- Non lavorare alla macchina senza avere prima indossato l'apposita protezione per gli occhi.
- Prima di effettuare qualsiasi lavoro di manutenzione, separare la macchina dall'alimentazione della corrente elettrica e/o dall'aria compressa.
- Non mettere mai in funzione la macchina quando non è collegata alla terra.
- Non modificare la macchina e utilizzare la stessa unicamente per gli scopi descritti nel paragrafo "2. Descrizione del prodotto". Scopi diversi da quelli qui riportati sono ammessi solo con l'approvazione scritta del costruttore. Il costruttore declina qualsiasi responsabilità per i danni derivanti dalla mancata osservanza di questa clausola.
- Non mettere in funzione la macchina prima di avere letto e compreso tutte le istruzioni.
- Gli interventi di riparazione devono essere eseguiti unicamente da persone autorizzate e qualificate per quest'attività.
- Evitare di tenere sciolti i capelli lunghi, non indossare abiti troppo ampi o gioielli, affinché gli stessi non possano restare impigliati negli elementi in movimento della macchina.
- Utilizzare i lubrificanti forniti in dotazione esclusivamente secondo quanto riportato in queste istruzioni per l'uso.

Instrucciones de seguridad español

1. Símbolos



Por favor, aténgase con exactitud a las tareas y procedimientos marcados con este símbolo. El incumplimiento de estas instrucciones puede producir peligro de muerte o graves lesiones corporales.



Por favor, aténgase con exactitud a las tareas y procedimientos marcados con este símbolo. El incumplimiento de estas instrucciones puede producir lesiones corporales leves o daños en la máquina.



Este símbolo identifica sugerencias y trucos de nuestro departamento de desarrollo, de producción o de nuestro servicio técnico.

2. Descripción del producto

La cortadora automática CCM 1200 corta cables redondos, alambres y mangueras al largo deseado y hasta un diámetro exterior de 10 mm. La cortadora automática se puede programar y manejar cómoda y sencillamente. No son necesarias regulaciones y ajustes mecánicos, con excepción del paso de los rodillos de avance. La CCM 1200 trabaja sin aire comprimido y, por lo tanto, sin ruido. A través de una entrada de mando, la cortadora recibe y trata señales enviadas por aparatos conectados antes o detrás de ella. Esto permite, por ejemplo, el uso con un pedal o el mando de una estampadora.

3. Responsabilidades

El usuario de la máquina se responsabilizará de que cualquier persona que trabaje con la máquina Schleuniger CCM 1200 esté correctamente instruida según estas instrucciones de servicio (puesta en servicio, manejo, mantenimiento). La formación del personal operario deberá contemplar los siguientes puntos:

- Finalidad del uso de la máquina (véase el apartado "2. Descripción del producto").
- Zonas de peligro (véase el apartado "5. Zonas de peligro").
- Normas de seguridad (véase el apartado "6. Normas de seguridad").
- Manejo de la máquina según estas instrucciones de servicio.

4. Cualificación del personal

La formación se deberá llevar a cabo en el idioma del personal operario para que puedan comprender todas las instrucciones. Por ello será necesario contar con el siguiente personal cualificado:

Montaje, puesta en servicio, instrucción	Personal técnico especializado que domine el inglés y/o alemán, así como la lengua del personal operario.
Manejo	Empleados formados según el apartado "3. Responsabilidades".
Mantenimiento, servicio	Personal técnico cualificado que domine el inglés o el alemán.

5. Zonas de peligro

Por favor, respete las siguientes zonas de peligro con especial precaución:

- Sector de los rodillos que sirven para el transporte del cable
- Sector del dispositivo de corte de cables (cabezal de corte)
- Sector de la salida del cable (¡tiene que estar siempre libre!)
 - Es necesario actuar con mucha precaución en relación con partes del cuerpo sensibles como los ojos, ya que el cable puede salir de la CCM 1200 a alta velocidad.
- Todo el interior de la CCM 1200
 - Peligro por tensión eléctrica en caso de contacto
 - Peligro debido a piezas mecánicas en movimiento



6. Normas de seguridad

- La máquina ha sido concebida en conformidad con la Norma europea EN294 para personas mayores de 14 años. Se prohíbe terminantemente permitir el acceso a la máquina a personas de menor edad.
- No use nunca la máquina en entornos donde exista peligro de incendio o explosión.
- La máquina debe funcionar sólo en locales secos y exentos de polvo.
- No use nunca la máquina sin la correspondiente cubierta de protección.
- No trabaje nunca en la máquina sin la protección de ojos.
- Desconecte la máquina del suministro eléctrico y/o de aire comprimido antes de efectuar en ella cualquier trabajo de mantenimiento.
- La máquina no debe usarse nunca sin la puesta a tierra conectada.
- No introduzca modificaciones en la máquina y úsela sólo para la finalidad prevista según el punto "2. Descripción del producto". Otros usos sólo están permitidos si se cuenta para ello con la autorización por escrito del fabricante. El fabricante rechaza toda responsabilidad por daños que puedan resultar al no respetarse esta disposición.
- No use la máquina antes de haber leído y comprendido todas las instrucciones.
- Las reparaciones sólo deben ser efectuadas por personas autorizadas y que cuenten con la debida formación para realizar esas tareas.
- No lleve el cabello largo suelto ni use ropa o joyas sueltas que puedan quedar enganchados o atrapados en piezas o partes móviles de la máquina.
- Use sólo los lubricantes entregados con la máquina y de acuerdo con las presentes instrucciones de servicio.



Veiligheidsvoorschriften nederlands

1. Symbolen



Volg de beschrijving bij werkzaamheden en processen die met dit pictogram zijn gemarkerd, nauwkeurig op. Het niet opvolgen van de instructies kan de dood of ernstige verwondingen veroorzaken.



Volg de beschrijving bij werkzaamheden en processen die met dit pictogram zijn gemarkerd, nauwkeurig op. Het niet opvolgen van de instructies kan lichte verwondingen en beschadiging van de machine veroorzaken.



Dit pictogram staat afgebeeld bij tips en handigheidjes van onze ontwikkelingsafdeling, van de productieafdeling en van onze klantenservice.

2. Productbeschrijving

De passnijautomaat CCM 1200 snijdt ronde kabels, draad, slangen op elke gewenste lengte tot een buitendiameter van 10 mm. De automaat is comfortabel te programmeren en te bedienen. Mechanische in- en afstellingen zijn, afgezien van de opening van de aanvoerrollen, niet nodig. De CCM 1200 werkt zonder druklucht en maakt daardoor weinig lawaai. Via een besturingsingang ontvangt en verwerkt de automaat signalen van een ervoor of erna geschakeld apparaat. Dit maakt b.v. bediening met een pedaal of besturing van een preegapparaat mogelijk.

3. Verantwoordelijkheid

De exploitant van de machine is ervoor verantwoordelijk dat iedereen die met de CCM 1200 van Schleuniger werkt, grondig is geïnstrueerd aan de hand van deze bedieningshandleiding (inbedrijfstelling, bediening, instandhouding). De scholing van het bedienend personeel dient de volgende punten te omvatten:

- toepassingsdoel van de machine (zie punt "2. Productbeschrijving").
- gevarenzones (zie punt "5. Gevarenzones").
- veiligheidsvoorschriften (zie punt "6. Veiligheidsvoorschriften").
- bediening van de machine conform deze bedieningshandleiding.

4. Kwalificaties van het personeel

Om te kunnen garanderen dat alle instructies worden begrepen, dient het bedienend personeel in zijn moedertaal te worden geschoold. Daarnaast dient u zich beslist te houden aan onderstaand schema over de kwalificaties van het personeel:

Montage, inbedrijfstelling, instructie	Technisch vakpersoneel dat de Engelse en/of Duitse taal en de taal van het bedienend personeel beheert.
Bediening	Conform "3. Verantwoordelijkheid" geschoolde medewerkers.
Onderhoud, service	Technisch vakpersoneel dat de Engelse of de Duitse taal beheert.

5. Gevarenzones

Wees bij onderstaande gevarenzones extra voorzichtig:



- Omgeving van de rollen voor het kabeltransport
- Gebied van de kabelsnij-inrichting (snijkop)
- Gebied van de kabeluitgang (moet altijd vrij gehouden worden!)
 - Wees bijzonder voorzichtig met kwetsbare lichaamsdelen, zoals ogen, omdat de kabel met grote snelheid uit de CCM 1200 kan komen!
- Het gehele inwendige van de CCM 1200
 - Gevaar door elektrische spanning bij aanraken
 - Gevaar door mechanische bewegende delen

6. Veiligheidsvoorschriften



- De machine is conform de Europese norm EN294 geconstrueerd voor personen boven 14 jaar. Het is streng verboden jongeren personen toegang tot de machine te verlenen.
- Gebruik de machine nooit in een omgeving waar gevaar van explosie of brand bestaat.
- De machine mag alleen in droge, stofvrije ruimtes worden gebruikt.
- Gebruik de machine nooit zonder veiligheidsafdekking.
- Werk nooit zonder veiligheidsbril aan de machine.
- Verbreek de verbinding van de machine met het stroomnet en/of de druklucht voordat u onderhoudswerkzaamheden uitvoert.
- Gebruik de machine nooit zonder dat de aarde aangesloten is.
- Breng geen veranderingen aan de machine aan en gebruik de machine alleen voor het in paragraaf "2. Productbeschrijving" beschreven doel. Andere gebruiksdoeleinden zijn alleen met schriftelijke toestemming van de fabrikant toegestaan. Voor schade die veroorzaakt wordt door het niet in acht nemen van dit voorschrift wijst de fabrikant elke aansprakelijkheid van de hand.
- Gebruik de machine niet voordat u alle aanwijzingen gelezen en begrepen hebt.
- Onderhoudswerkzaamheden mogen alleen door bevoegde en voor dit werk geschoolde personen worden uitgevoerd.
- Draag lang haar niet los en draag geen los hangende kleren of sieraden, om te voorkomen dat deze in bewegende delen van de machine terechtkomen.
- Gebruik de bijgeleverde smeermiddelen uitsluitend in overeenstemming met deze handleiding.

Sikkerhedsforskrifter dansk

1. Symoler



Overhold nøje de arbejder og forløb, som er markeret med dette symbol. Manglende overholdelse kan medføre døden eller alvorlige kvæstelser.



Overhold nøje de arbejder og forløb, som er markeret med dette symbol. Manglende overholdelse kan medføre lette kvæstelser og beskadigelser på maskinen.



Dette symbol kendetegner gode råd og henvisninger fra vores udviklingsafdeling, produktion og kundetjeneste.

2. Produktbeskrivelse

Afkortningsautomaten CCM 1200 skærer runde kabler, tråde og slanger i enhver ønsket længde indtil en udvendig diameter på 10 mm. Automaten er nem at programmere og betjene. Det er – bortset fra åbningen til fremføringsrullerne – ikke nødvendigt at gennemføre mekaniske indstillinger og justeringer. CCM 1200 er næsten lydløs, da den arbejder uden trykluft. Via en styreindgang modtager og behandler automaten signaler fra en for- eller efterkoblet maskine. Dette muliggør f.eks. betjening med en pedal eller styring af en prægemaskine.

3. Ansvar

Maskinens ejer bærer ansvaret for, at alle personer, som arbejder med Schleuniger CCM 1200 har fået en indgående instruktion ved hjælp af den foreliggende driftsvejledning (idrifttagning, betjening, istandsættelse). Uddannelsen af det personale, som betjener maskinen, skal omfatte følgende punkter:

- Maskinens anvendelsesformål (se afsnit "2. Produktbeskrivelse").
- Farlige områder (se afsnit "5. Farlige områder").
- Sikkerhedsbestemmelser (se afsnit "6. Sikkerhedsbestemmelser").
- Betjeningen af maskinen i overensstemmelse med den foreliggende driftsvejledning.

4. Personalalets kvalifikationer

For at alle instruktioner skal blive forstået, skal undervisningen foregå på betjeningspersonalets sprog. Desuden er følgende kvalifikationer nødvendige for personalet:

Montering, idrifttagning, instruktion	Tekniske fagfolk, som behersker engelsk og/eller tysk samt betjeningspersonalets sprog.
Betjening	Medarbejdere, som er indstrueret i overensstemmelse med afsnit "3. Ansvar".
Vedligeholdelse, service	Tekniske fagfolk, som behersker engelsk eller tysk.

5. Farlige områder

Ved de følgende farlige områder skal man være særligt forsigtig:



- Område i hvilket rullerne til kabeltransporten befinder sig
- Område i hvilket kabelskæranordningen befinder sig (skærehoved)
- Område i hvilket kablet kommer ud (skal altid holdes fri!)
 - Man skal især beskytte følsomme dele af kroppen som f.eks. øjnene, da kablet kan komme ud af CCM 1200 med stor hastighed!
- Samlet indvendigt område på CCM 1200
 - fare for elektrisk spænding, hvis det berøres
 - fare fremkaldt af mekaniske dele, der bevæger sig

6. Sikkerhedsbestemmelser



- Maskinen er konstrueret til at blive betjent af personer på 14 år og derover iht. den europæiske standard EN 294. Det er strengt forbudt at give personer under 14 år adgang til maskinen.
- Benyt aldrig maskinen i eksplosions- eller brandfarlige omgivelser.
- Maskinen må kun benyttes i tørre, støvfrie rum.
- Benyt aldrig maskinen uden beskyttelsesskærm.
- Arbejd aldrig uden øjenværn på/ved maskinen.
- Afbryd maskinen fra strømforsyningen og/eller fra trykluften, før vedligeholdelsesarbejde udføres på maskinen.
- Benyt aldrig maskinen uden tilsluttet beskyttelsesjording.
- Foretag ikke ændringer på maskinen og benyt den kun til de formål, den er beregnet til (iht. afsnit "2. Produktbeskrivelse"). En anden benyttelse kræver forudgående skriftlig tilladelse fra fabrikanten. Fabrikanten fraskriver sig ethvert ansvar for skader, der opstår som følge af manglende overholdelse af denne forskrift.
- Tag først maskinen i drift, når alle anvisninger er læst og forstået.
- Vedligeholdelsesarbejde må kun udføres af særligt personale, som er berettiget og uddannet til at udføre et sådant arbejde.
- Beskyt langt hår under et håret, bær ikke løstsiddende tøj eller smykker, de kan sætte sig fast i bevægelige maskinlede.
- De medfølgende smøremidler må kun benyttes iht. nærværende betjeningsvejledning.

Säkerhetsföreskrifter svenska

1. Symboler



Följ noggrant de arbeten och förlopp, som är markerade med detta pictogram. Underlåtelse att följa dem kan leda till död eller allvarliga kroppskador.



Följ noggrant de arbeten och förlopp, som är markerade med detta pictogram. Underlåtelse att följa dem kan leda till lätt kroppskador och till maskinskador.



Detta pictogram kännetecknar tips och trick från vår utvecklingsavdelning, från vår produktion och från vår kundtjänst.

2. Produktbeskrivning

Kapningsautomaten CCM 1200 skär av rund kabel, tråd och slang i varje önskad längd upp till en ytterdiameter på 10 mm. Automaten är bekväm att programmera och betjäna. Mekaniska inställningar erfordras inte förutom matningsrullarnas frammatning. CCM 1200 arbetar utan tryckluft och är därför tystgående. Över en styringång mottager och bearbetar automaten signaler från framför eller efteråt inkopplad utrustning. Detta möjliggör exempelvis manövrering med pedal eller styrning av en präglingsutrustning.

3. Ansvarighetsområden

Maskinskötaren bär ansvaret för att varje person, som på basen av föreliggande bruksanvisning arbetar med Schleuniger CCM 1200, har blivit noggrant instruerad (ibruktagning, användning, underhåll). Skolningen av användar -personalen måste omfatta följande punkter:

- Maskinens användningsändamål (se avsnitt "2. Produktbeskrivning").
- Riskområden (se avsnitt "5. Riskområden").
- Säkerhetsföreskrifter (se avsnitt "6. Säkerhetsföreskrifter").
- Användning av maskinen i enlighet med föreliggande bruksanvisning.

4. Personalens kvalifikationer

För att alla instruktioner skall förstås, måste skolningen ske på användarpersonalens språk. Därmed krävs att personalen har följande kvalifikationer:

Montering, ibruktagning instruktion	Teknisk fackpersonal, som behärkar engelska och/eller tyska samt betjäningspersonalens språk.
Användning	Anställda som skolats enligt "3. Ansvarsområden".
Underhåll, service	Teknisk fackpersonal, som behärskar engelska eller tyska

5. Riskområden

Var speciellt försiktig inom följande riskområden:



- Området kring de rullar, som matar fram kabeln
- Området kring kabelkapningsanordningen (skärhuvud)
- Utmatningsområdet för kabeln (måste alltid hållas fritt!)
 - Särskild försiktighet skall iakttas för känsliga kroppsdelar, t.ex. ögon, eftersom kabeln kan matas ut från CCM 1200 hög hastighet!
- Invändigt i hela CCM 1200
 - Fara vid beröring på grund av elektrisk spänning
 - Fara på grund av mekaniskt rörliga delar

6. Säkerhetsföreskrifter



- Maskinen har enligt den europeiska normen EN294 konstruerats för personer över 14 år. Det är strängt förbjudet att tillåta yngre personer att få tillträde till maskinen.
- Kör aldrig maskinen i en omgivning där explosions- eller brandrisk föreligger.
- Maskinen får köras endast i torra, dammfria lokaler.
- Kör aldrig maskinen utan skyddskåpa.
- Arbeta aldrig utan skyddsglasögon vid maskinen.
- Skilj alltid maskinen från elnätet och/eller från tryckluftsnätet innan några som helst underhållsarbeten utförs på maskinen.
- Kör aldrig maskinen utan ansluten skyddsjordning.
- Ändra inte maskinen och använd den endast för det avsedda ändamålet, enligt avsnitt "2. Produktbeskrivning". Andra användningsändamål är tillåtna endast efter skriftligt godkännande från tillverkaren. För skador som uppstår genom att denna föreskrift ej har följts, avvisar tillverkaren allt ansvar.
- Använd inte maskinen förrän ni har läst och förstått alla anvisningar.
- Underhållsarbeten får endast utföras av behöriga och för detta arbete utbildade personer.
- Bär inte löst hängande hår, löst sittande klädesplagg eller lösa smycken, för att förhindra att de fångas upp av maskinens rörliga delar.
- Använd de medlevererade smörjmedlen uteslutande enligt föreliggande driftsinstruktion.

Machine Description

The CCM 1200 automatic cutter cuts round cables, wires, hoses to any length required. The automatic unit can be programmed and operated via a user-friendly control panel. Once the CCM 1200 has been programmed it processes the material on a fully automatic basis. No settings or adjustments are required right down to the compression pressure of the feed rolls on the material to be cut.

The CCM 1200 operates without compressed air and so is quiet. The automatic unit receives and processes signals from an up and downline unit via a control input. This allows the unit to for example be operated using a pedal. In addition, the CCM 1200 can be used to control an external wire marking machine and a prefeeder input can be connected for the cable feed.

Unpacking the CCM 1200

- Carefully unpack the CCM 1200 and place the packaging to one side. We recommend that you keep the original packaging. This will protect the unit when it is subsequently being transported.
- Check that the consignment is complete in accordance with the standard equipment and your additional order requirements (packaging list)

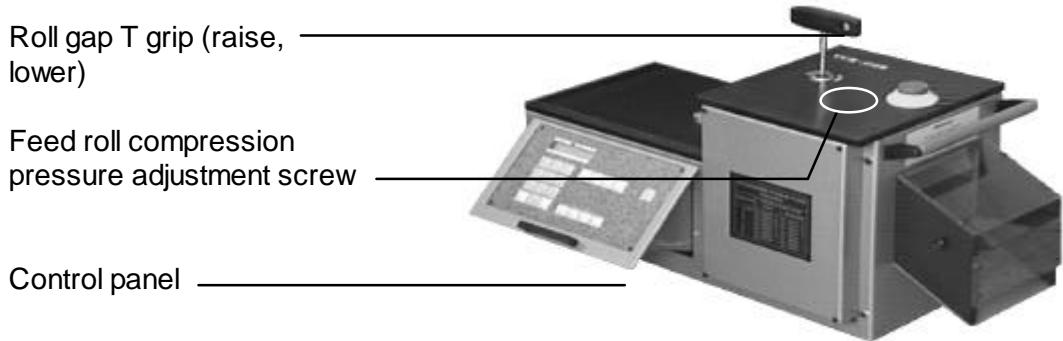
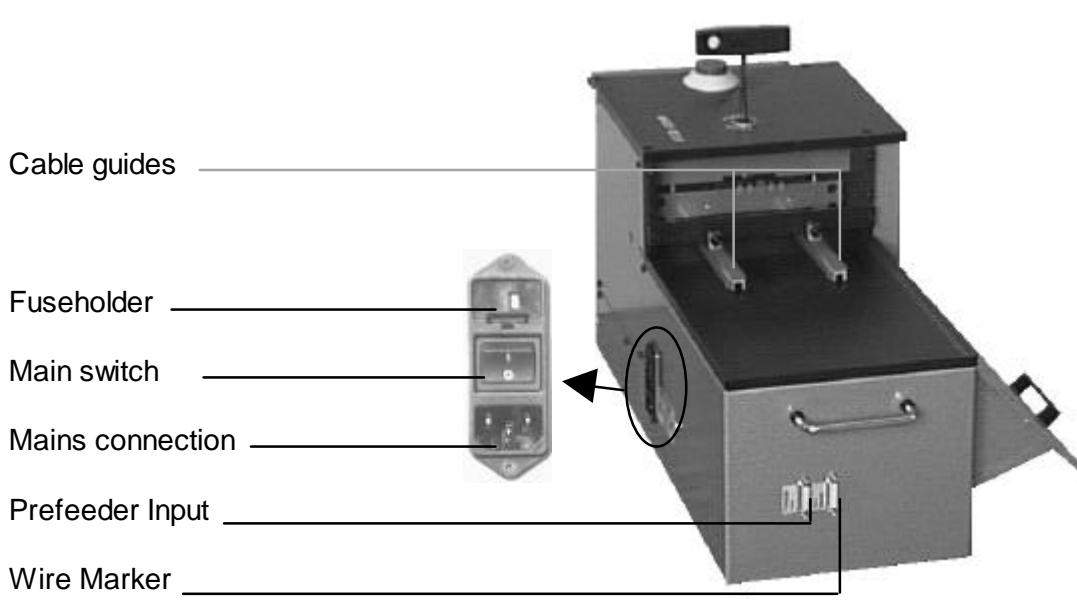
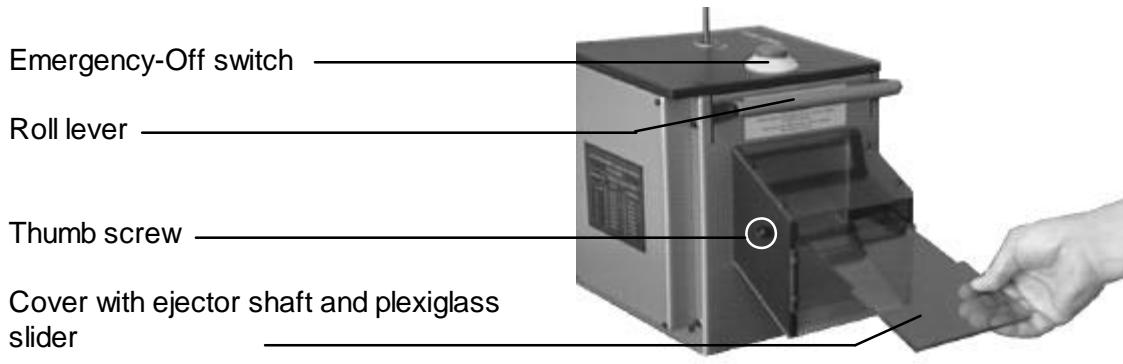
Standard Equipment

Quantity	Description	Article number
1	CCM 1200 Automatic Cutter	902.1000
1	Operating Instructions	273.0000
1	Mains power cable Switzerland	206.0001
	or Europe	206.0002
	or USA / Japan	206.0003
1	Socket head wrench 2 mm	272.0007
1	Socket head wrench 2,5 mm	272.0006
1	Socket head wrench 4 mm	272.0005
1	Skeet head wrench 5 mm	272.0004
1	Socket head wrench 8 mm	272.0003
1	Hexagonal pin wrench with handle 6 mm	272.0001
1	Hexagonal socket wrench 10 mm	272.0000
1	Open-ended wrench 8 / 10 mm	272.0002

Operating Controls, Displays, Connections

Operating Controls

Emergency-Off switch	The Emergency-Off switch immediately shuts down all the functions of the CCM 1200. To shut down the machine quickly press the switch in until it engages. To reset, turn the switch in a clockwise direction until it springs out of the engaged position.
T-grip for roll gap	The T-grip is used to adjust the opening between the feed rolls. If you turn it in a clockwise direction, „UP“, the opening between the feed rolls widens, turning it in an anticlockwise direction, „DOWN“, the opening reduces.
Adjustment screw feed roll compression pressure	This hexagonal socket head screw (SW 8 mm) is used to adjust the compression pressure of the feed rolls on to the cable. If you tighten the screw the compression pressure is increased. If you loosen the screw the pressure reduces. The basic setting is carried out at the factory and only has to be adjusted in exceptional cases.
Roll lever	If you press the roll lever down then the upper feed roll is raised. This enables you to remove material from the machine or to insert material into it.
Plexiglass slider	The plexiglass slider is used for cutting lengths of more than 18 cm. For shorter pieces the slider is pulled out.
Cable guides	The cable guides can be adjusted to the width of the material to be cut. They are secured using the two milled screws.
Main switch	The master switch is used to switch the CCM 1200 on and off.
Control panel	The control panel can be folded out for convenient operation.

**Figure 1. Front view****Figure 2. Rear view****Figure 3. Shaft with plexiglass slider**

Connections

Mains connection

- Mains connection single-phase, earthed (2P + E)
- 115, 230, 240 V / 50 - 60 Hz
- Power consumption maximum 80 VA
- The CCM 1200 operates **without** compressed air.

The fuse holder (Figure 2, Page 23) also houses the voltage selector. See Page 31. for details on how to change the fuses. The procedure for changing the voltage is described on Page 30.

Prefeeder Input

An electric or mechanical prefeeder can be connected to the prefeeder input. This allows the cable feed to be monitored and processing to be stopped automatically in the event of an emergency. With Schleuniger equipment the corresponding connector cable is supplied with the prefeeder. Otherwise a D-Sub connector can be wired as follows:

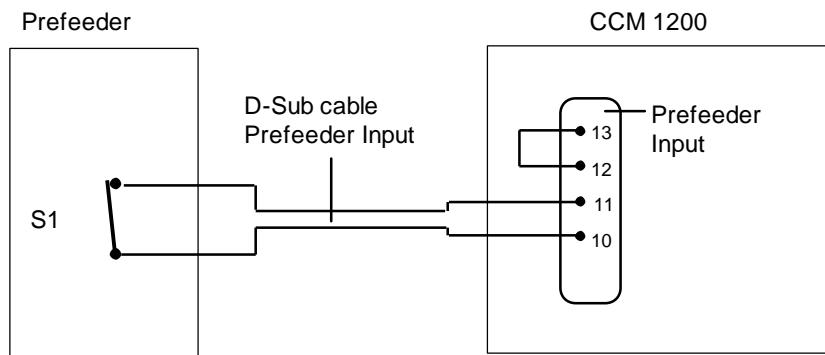


Figure 4. Control contact S1

Once the D-Sub connector has been inserted and the control contact S1 is closed you can start the CCM 1200 in the normal way. When the control contact S1 opens automatic processing is interrupted and the error message CABLEFEEDER STOP appears in the display. Once the control contact S1 has closed again the programme can be continued by pressing [run].

Wire Marker

The Wire Marker connection enables the CCM 1200 to also receive and process control signals from an up or downline machine. This control input can be used for example for the following purposes:

- Connecting a wire marker in order to receive return messages from it
- Connection of a pedal for single piece production

The relevant control contact is closed in order to activate the various functions. Please **only** use potential-free, gold-plated contacts (relays) or opto-couplers for this purpose.

Pause function

If the control contact S2 is open the CCM 1200 can be started in the normal way.

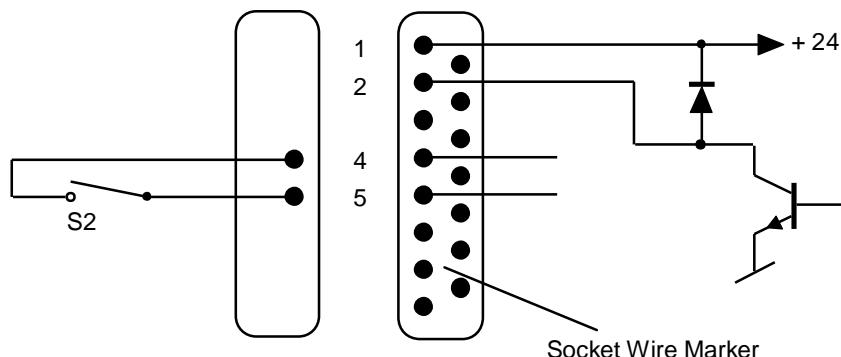


Figure 5. Pause function

If the control contact S2 is closed then the feed is interrupted but the LED above the [run] key stays on. If the control contact S2 is opened again then the feed and processing is continued. This function is particularly suitable for use with the connected wire marker. The CCM 1200 stops the processing and issues the mark command to the wire marker. During the marking process the wire marker triggers the control contact S2 to close so that the automatic unit does not continue to feed the material forwards.

Single piece function

This enables you to process single pieces via a connected pedal without pressing [run]. In addition to the control input assignment, the function is activated as follows:

- Hold down both [speed] keys when switching on the automatic unit. (Or press [5], if the machine has already been switched on).
- The word **CODE ?** appears in the display.
- Release the [speed] keys.
- Enter 20.
- Press [enter], then [STOP].

For safety reasons this individual step function only remains activated until the machine is switched off.

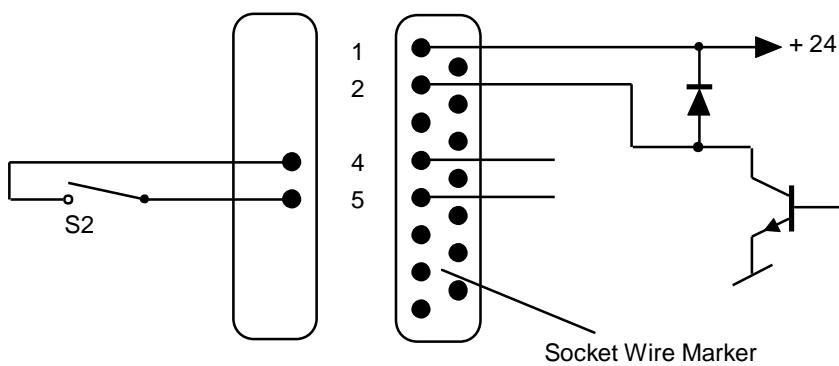


Figure 6. Single piece function

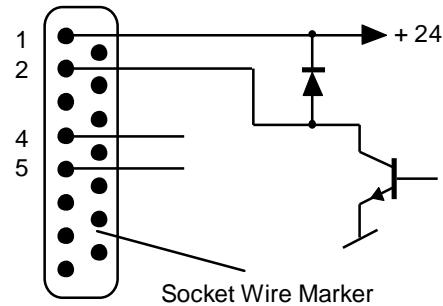
When the control contact S2 closes the LED above the [run] key lights up. Once the control contact S2 opens the single piece is processed and the LED goes out. The CCM 1200 also takes into account the programme quantity when carrying out this function. Once the required quantity has been processed the words END OF PROGRAM appears in the display.

Internal Circuit on the Wire Marker Output

The circuit on the wire marker output is structured as follows:

The output is designed for an induction load of up to 0.2 A at 24 V DC (relay, valve) and is protected against voltage surges.

Figure 7. Internal circuit on the wire marker output



Electromagnetic Compatibility (EMC)

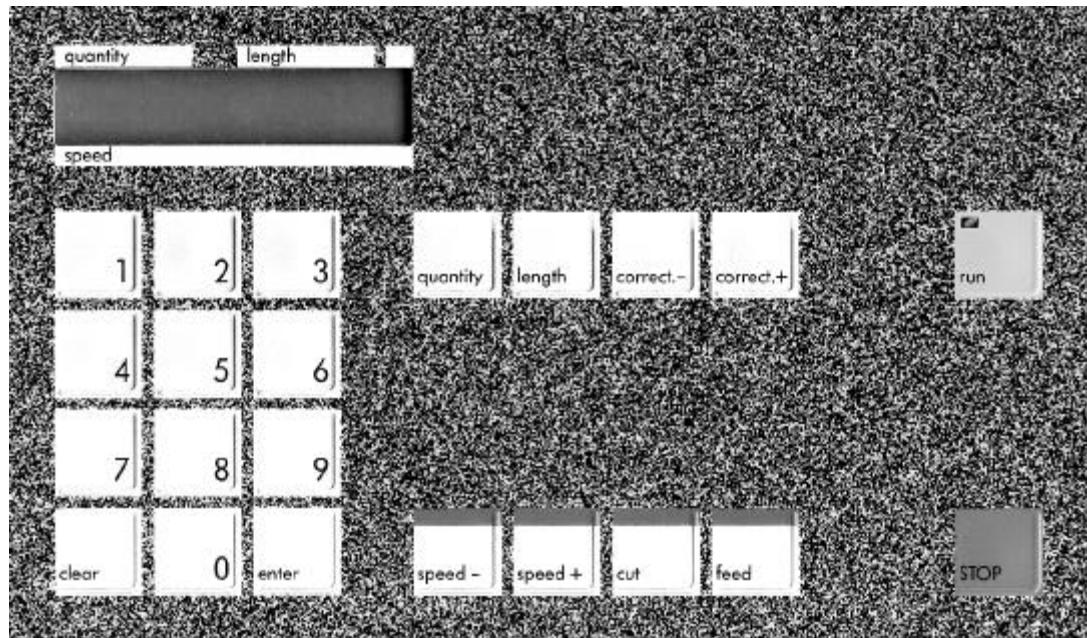


In order to meet the EMC regulations and consequently to reduce the affects of interference, only cables made specially by Schleuniger may be used. In addition, the interface connectors (D-Sub connectors) must be fixed with screws in accordance with the regulations.

Control Panel

All the functions of the control panel keys are explained below. In these Operating Instructions the keys to be pressed are written in square [brackets].

Figure 8. Control panel



[quantity] The [quantity] key is used to select the quantity (0 to 999'999). If you press the key then a cursor appears in the display. The cursor flashes until you have keyed in the required quantity on the numerical keyboard and confirmed it by pressing [enter].

[length] The [length] key is used to select the length of the pieces to be cut. If you press the key a cursor appears in the display. The cursor flashes until you have keyed in the required length on the numerical keyboard and confirmed it by pressing [enter]. The length can be entered in mm or in 1/100" (See the STOP key).

[correct -] Depending upon the composition of the material to be cut deviations in length can occur when the material is being fed. The pieces are then either slightly too long or too short. If the measurement is too short then press [correct +] and enter the difference from the programmed length. If the measurement is too long press the [correct -] and enter the difference from the programmed length. Confirm the entry each time by pressing [enter]. Once you have programmed a corrected value then a + or - symbol appears in the display under [length].

In order to display the entered corrected value press [correct +] or [correct -]. By pressing [enter] the set value is retained, pressing [clear] and [enter] the value is set to 0. If you select a new length by pressing [length] the value entered under [correct] is deleted.

[clear] Pressing [clear] sets a value to 0.

[enter]	Each entry must be confirmed by pressing [enter].
[speed +]	The selected feed speed is shown in the display with a line. If you increase the feed speed the line moves to the right; if you reduce the feed speed the line moves to the left.
[speed -]	It is not possible to alter the feed speed during processing. You can only enter a new feed speed after stopping the machine by pressing [STOP]. By pressing [run] you continue the processing.
[feed]	By pressing [feed] you move the cable. The cable continues to be moved for as long as you hold down the key.
[cut]	By pressing [cut] you carry out a single cut.
[run]	The [run] key is used to start processing. During processing the red LED on the key lights up. The display continuously shows the quantity still to be cut under [quantity]. Once the programmed quantity has been reached the words END OF PROGRAMM appears in the clear view display.
[STOP]	<p>The [STOP] key has three functions:</p> <ul style="list-style-type: none">• If you press [STOP] when the machine is processing then the CCM 1200 immediately shuts off all functions. The word BREAK appears in the display.• If you press [STOP] before the processing commences the words „Turn up“ or „Turn down“ appear in the display. Turn the T-grip in line with the display. If the roller gap has been correctly set the words "Turn Up" or "Turn down" disappear from the display.• If you hold down the [STOP] key and simultaneously switch on the automatic unit via the master switch the unit of measure switches to mm or 1/100". The setting reverts to the standard setting if you switch the CCM 1200 off and back on again.

Setup



It is imperative to check whether the mains voltage on the CCM 1200 is the same as that of the local mains voltage. If the voltages are different you must set the mains voltage on the CCM 1200 using the voltage selector (next section "Setting the mains voltage").

- Place the CCM 1200 on a solid, even base (table, workbench etc.)
- If the master switch is on then switch it off.
- Insert the T-grip for the roller gap into the top of the CCM 1200.
- Connect the mains cable to the power supply.

The CCM 1200 is now ready for operation.

Setting the mains voltage



Switch the master switch off and disconnect the mains plug from the power supply.

- Pull out the fuseholder.
- Remove the voltage selector and reinsert it into the required position in the fuseholder. The selected voltage appears in the small window (Figure 9).
- Note the new mains voltage on the rating plate.
- Change the mains fuses (see next section).
- Insert the fuseholder into the CCM 1200.
- Insert the mains plug into the power supply.

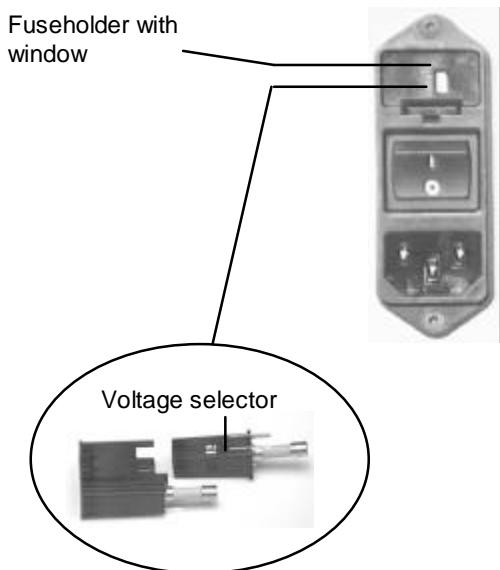


Figure 9. Voltage selector

Replacing the mains fuse



Switch the master switch off and disconnect the mains plug from the power supply.

- Lever out the fuseholder with a screwdriver (Figure 9, Page 30).
- Always replace both fuses:
100 VAC, 115 VAC = 2 x 3,15 A/T
230 VAC, 240 VAC = 2 x 1,6 A/T
- Insert the fuseholder.
- Insert the mains plug into the power supply.

Changing the unit of measure

There are two setting options for changing the unit of measure to „mm“ or „inch“:

- Temporary change
- Changing the standard setting

With a temporary change the new unit of measure in each case only remains active until you switch the master switch off and back on. For details on how to change the unit of measure temporarily see the section entitled „Control panel“ on Page 28 under the description of the [STOP] key. Any change in the standard setting may only be carried out by specially trained personnel (Page 43).

Display language

- Hold down the two [speed] keys when switching on the automatic unit. (Or press [5] if the automatic unit is already on).
- The word **CODE ?** appears in the display
- Release the [speed] keys.
- Enter "40, 41, 42 or 43".
40 = English
41 = German
42 = French
43 = Italian
- First press [enter] then [STOP]

Operation

The CCM 1200 processes cables, hoses, wires and all kinds of flat material. For the purposes of simplification however all the operating procedures in these Operating Instructions are described using a cable. The quickest way to learn how to operate the CCM 1200 is by way of a practical example. Let us assume that we want to produce 6 round cables, each 15 cm long. The cable diameter is 4 mm:

- Switch the master switch on.
- Undo the milled screws on the cable guides and set the guides to the diameter of the cable you wish to process. Leave a play of approx 1 mm between cable and guides.
- Feed the cable through the guides and the automatic unit until it protrudes slightly out of the other side. If the cable is positioned against the feed rolls then rotate the T-grip in the „UP“ direction until the cable moves between and through the feed rolls.
- Turn the T-grip in the „DOWN“ direction until the cable is clamped.
- Press [STOP]. The words „Turn Up“ or „Turn down“ appear in the display.
- Turn the T-grip to correspond with the display until a „Beep“ is heard and „Turn Up“ or „Turn down“ disappears from the display. This means the correct distance between the feed rolls has been set. The setting is important to ensure the cable limit switch functions properly.
- Press [cut]. The unit will now carry out a single cut and you will have a defined cable end.
- Press [quantity], [6] and [enter].
- Press [length], [1 5 0] and [enter]. We will leave the feed speed in the default setting. It can however be easily adjusted using the „speed“ keys. (See also „Control panel“, Page 28).
- Press [run]. Once the 6 cables have been cut the words END OF PROGRAMM appear in the display.
- Measure the length of one of the cut cables. If the cable has been cut too long or too short you can correct this deviation using the two keys [correct +] and [correct -]. The keys are explained on Page 28 in the section entitled „Control panel“.

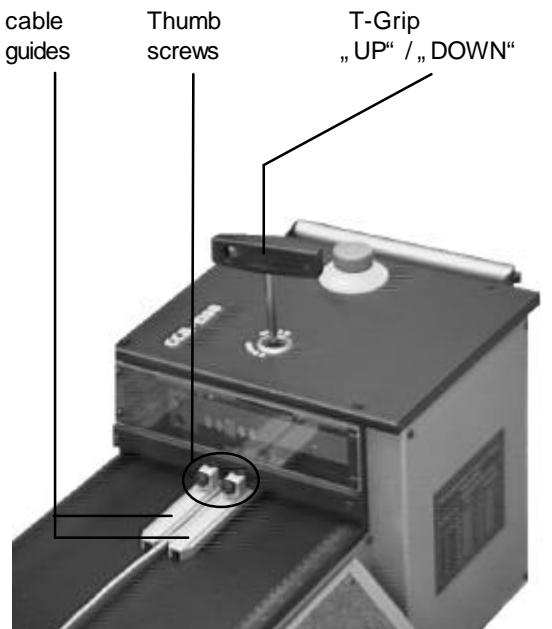


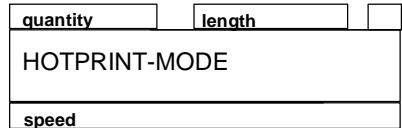
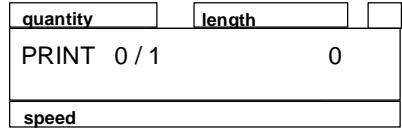
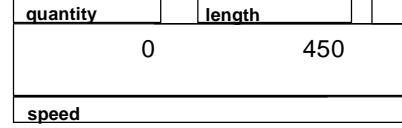
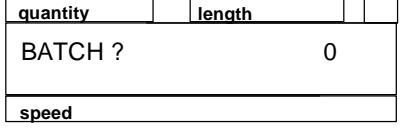
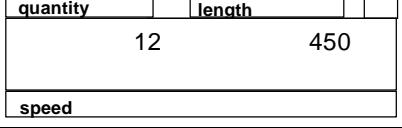
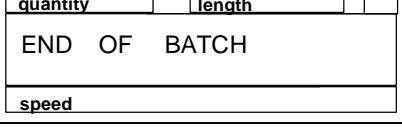
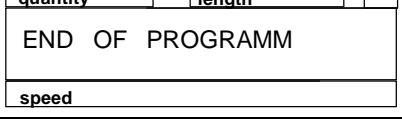
Figure 10. Inserting the cable

 To restart the same programme you must first press [quantity] and [enter]. In our example we have described how you can insert the cable into the CCM 1200. There are two other alternatives for this process which will save you time particularly in everyday use:

- Insert the cable between the cable guides until it touches the feed rolls. Press [feed]. The cable is moved until you release [feed]. You obviously cannot insert a 10 mm thick cable if the feed rolls have been set to 3 mm, otherwise the unit will block. In this case turn the T-grip in the „UP“ direction until the cable feed is functioning again.
- If you press the roller lever downwards the upper feed roll will be raised and you can remove or insert a cable. This is helpful for example if you wish to process a number of cable rolls using the same material.

Selecting the batch size

With the CCM 1200 you can select batch sizes of between 1 and 999'999 nos. The CCM 1200 stops each time a batch has been completed. To start the next batch press [run].

Programme step	Key sequence	Display
Activate „Batch mode“.	Hold [1] down whilst switching on the master switch.	
Select the length of the cable to be cut, for example 450 mm.	[length] [4 5 0] [enter]	
Switch off the Hotprint mode if it has been switched on. (If Hotprint mode has been selected a 1 appears in the right hand side of the display).	[clear] [enter]	
Select the total quantity of 12 cables.	[quantity] [1 2] [enter]	
Select the batch size of 3 no.	[3] [enter]	
Start the processing.	[run]	
Each time a batch is completed start the new batch until the programme is complete.	[run] [run] [run]	

Wire Marking

The CCM 1200 can control an upline wire marker. Position the function-ready wire marker to the left of the CCM 1200. The distance between the wire marker stamps (marking wheels) and the blades on the CCM 1200 should not exceed 1 m. Connect the wire marker to the CCM 1200 using the Wire Marker connection (Figure 2, Page 23). Ensure that the cable to be marked can move smoothly. The best way to explain how to programme a wire marking procedure is by way of an example. So let's produce the following cables:

20 cables, each 380 mm long, 1 marking on the right hand side 35 mm from the end of the cable, 1 marking 40 mm from the left hand side of the cable, 1 marking in the middle of the cable.

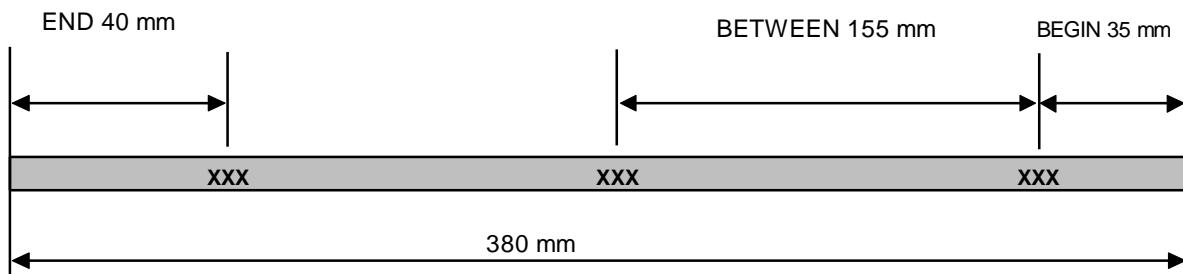


Figure 11. Practical example of wire marking

Programme step	Key sequence	Display									
In order to activate the Hotprint mode hold down [1] when switching on the CCM 1200.		<table border="1"> <tr> <td>quantity</td> <td>length</td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="3">HOTPRINT-MODE</td> </tr> <tr> <td colspan="3">speed</td> </tr> </table>	quantity	length	<input type="checkbox"/>	HOTPRINT-MODE			speed		
quantity	length	<input type="checkbox"/>									
HOTPRINT-MODE											
speed											
Select the length of the cable to be cut, for example 380 mm.	[length] [3 8 0]	<table border="1"> <tr> <td>quantity</td> <td>length</td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="3">LENGTH ? 380</td> </tr> <tr> <td colspan="3">speed</td> </tr> </table>	quantity	length	<input type="checkbox"/>	LENGTH ? 380			speed		
quantity	length	<input type="checkbox"/>									
LENGTH ? 380											
speed											
Switch the Hotprint mode on if it is off. (If the Hotprint mode is off a 0 appears in the right hand side of the display).	[enter] [1]	<table border="1"> <tr> <td>quantity</td> <td>length</td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="3">PRINT 0/1 1</td> </tr> <tr> <td colspan="3">speed</td> </tr> </table>	quantity	length	<input type="checkbox"/>	PRINT 0/1 1			speed		
quantity	length	<input type="checkbox"/>									
PRINT 0/1 1											
speed											
Select the distance from the right end of the cable to the centre of the marking.	[enter] [3 5]	<table border="1"> <tr> <td>quantity</td> <td>length</td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="3">BEGINN ? 35</td> </tr> <tr> <td colspan="3">speed</td> </tr> </table>	quantity	length	<input type="checkbox"/>	BEGINN ? 35			speed		
quantity	length	<input type="checkbox"/>									
BEGINN ? 35											
speed											

Select the distance from the left end of the cable to the centre of the marking.	[enter] [4 0]	quantity length END ? 40 speed
Select the marking in the centre. (Cable length / 2) - BEGIN marking? = (380 / 2) - 35 = 155 mm	[enter] [1 5 5]	quantity length BETWEEN ? 155 speed
Enter the distance between the marking stamps (marking wheels) and the CCM 1200 blades, for example 750 mm.	[enter] [7 5 0]	quantity length DISTANCE ? 750 speed
Select the marking duration. We recommend 200 ms.	[enter] [2 0 0]	quantity length PRTIME ? 200 speed
Select the total quantity.	[enter] [quantity] [2 0]	quantity length QUANTITY ? 20 speed
Select the batch size, in our example 0. If you wish to select a different batch size then enter the required quantity.	[enter] [clear] [enter]	quantity length 20 380 speed
Insert a cable, carry out a single cut and then start processing.	[cut] [run]	quantity length END OF PROGRAMM speed

Maintenance

Cleaning, general

The CCM 1200 is very maintenance-friendly. Because the material is only cut and not stripped virtually no dirt and dust etc. is produced. The best way to clean the casing is to use a damp cloth and a standard general purpose cleaner. Do not use any corrosive solvents.

Cleaning the cutting zone



Switch the master switch off. Remove the mains plug from the power supply. The following work should only be carried out by specially trained personnel (Schleuniger representatives, the user's trained specialist personnel).

- Remove the cover together with the ejection shaft (Figure 12, Page 37).
- Clean the cutting zone (Figure 15, Page 39) using a paintbrush and a vacuum cleaner attachment.



Do not use any compressed air otherwise cable residues and dirt may be blown directly into the electronics in the CCM 1200.

- Fit the cover and insert the mains plug into the power supply.

A cleaning interval of 6 months is normally sufficient.

Replacing the feed roll V-belts



Switch the master switch off. Remove the mains plug from the power supply. The following work should only be carried out by specially trained personnel (Schleuniger representatives, the user's trained specialist personnel).

- Remove the cover for the feed roll drive. This is the cover next to the control panel with the four socket head screws (SW 2.5).
- Loosen the “drive motor” belt tightener slightly. After you have pushed the belt tightener down you can remove the smaller V-belt (belt drive motor Fig 12).
- Loosen the “drive motor” belt tightener slightly. After you have pushed the belt tightener down you can remove the double cog belt (twin-power belt).
- Fit and set the tension for the new double V-belt.

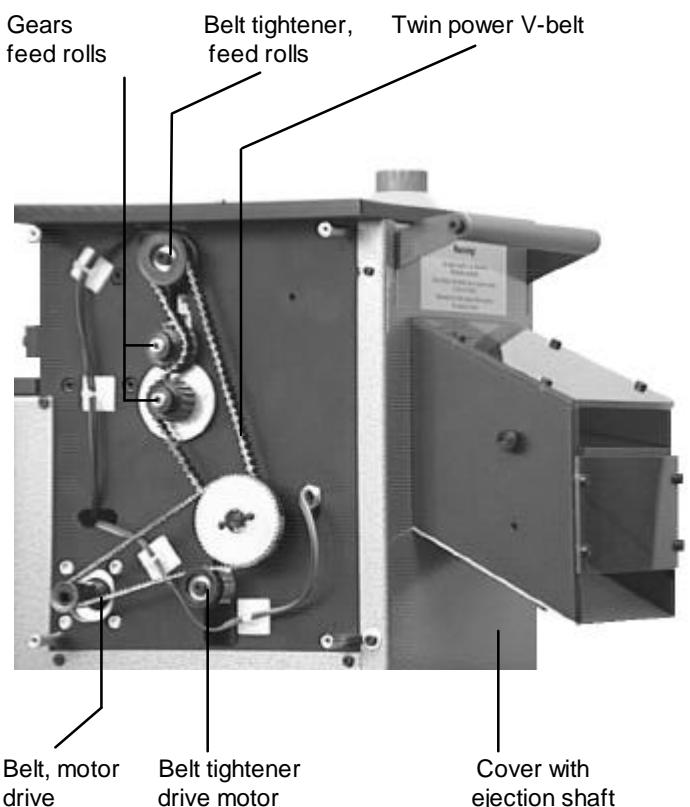


Figure 12. Replacing the feed roll V-belts



In order to set the correct tension for the double V belt the upper feed roll must be in the bottom position. So turn the upper feed roll using the T-grip, downwards until it almost touches the bottom feed roll.

- Now slide the belt tightener upwards until the required tension is achieved, then tighten the screw.
- Fit and set the tension for the smaller V-belt.
- Fit the cover.
- Insert the mains plug into the power supply.



The procedure for replacing the “drive motor” V-belt can also be seen from the description above.

Replacing the V-belt, blade drive



Switch the master switch off. Remove the mains plug from the power supply. The following work must only be carried out by specially trained personnel (Schleuniger representatives, the user's trained specialist personnel).

- Remove the cover together with the ejector shaft (Figure 12, Page 37). The V-belt for the blade drive is shown in Figure 13.

- Remove the square-shaped cover on the rear of the automatic unit.

- Undo both screws on the blade drive motor (Figure 14). The motor will slide downwards; if it doesn't, slide the motor down slightly using your hand.

- Remove the defective belt from the V-belt disc and fit the new belt.

- To set the belt tension simply slide the motor upwards until the required tension has been achieved, then tighten the screws.

- Fit the two covers.

- Insert the mains plug into the power supply.

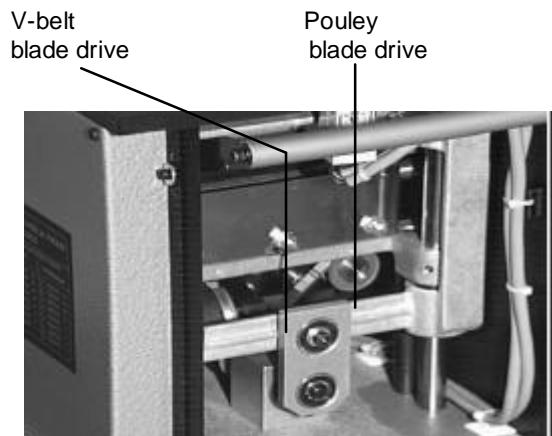


Figure 13. Blade drive feed belt

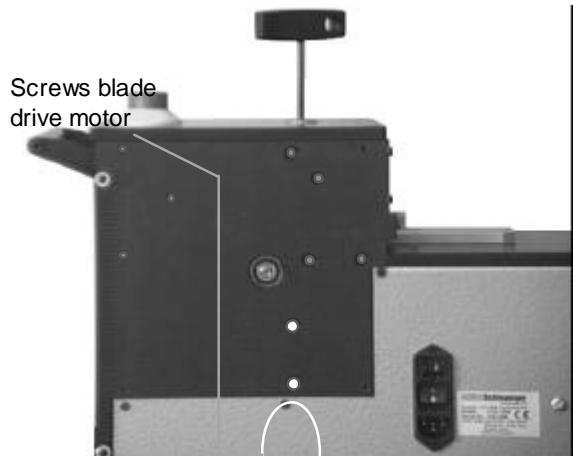


Figure 14. Screws on blade drive motor

Replacing upper blade



Switch the master switch off. Remove the mains plug from the power supply. The following work must only be carried out by specially trained personnel (Schleuniger representatives, the user's trained specialist personnel).

- Remove the cover together with the ejector shaft (Figure 12, Page 37).
- Remove the upper screw on the connector rod. It is secured with a *lock nut* (Figure 15).

Caution: The upper knife will now fall down!!

- Clean the inside using a paintbrush and vacuum cleaner attachment
- Remove the upper blade (two M5 socket head screws).
- After you have lightly oiled the new or the resharpened blade you can fit it back.
- Move the upper blade up and down. The blade should not jam or have any play. Carry out a manual cutting test using a strip of paper. The strip should be cut evenly along the entire cutting length. If the quality of the cut is poor then you must realign the blades. The procedure for realigning is described on Page 41.
- Tighten the screws on the connector rod (*!! Don't forget the lock nut*).
- Fit the cover and connect the mains plug to the power supply.

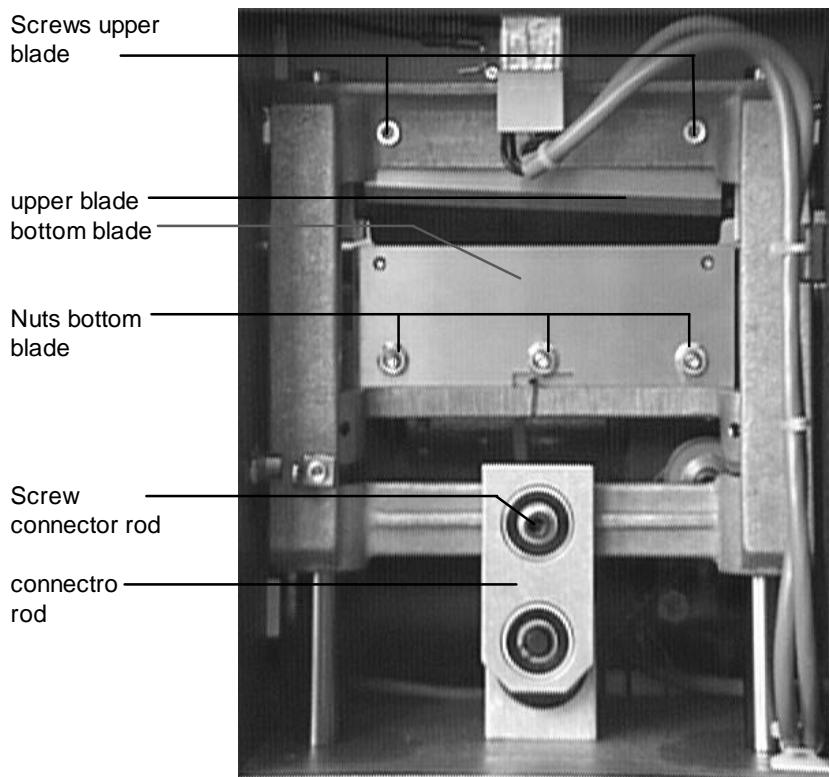


Figure 15. Replacing upper blade

Sharpening the blades

Your Customer Service Department will be pleased to sharpen your blades for you. However, if you wish to sharpen the blades yourself then you must do this on the front edges.

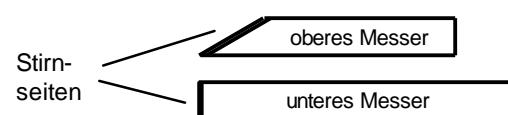


Figure 16. Sharpening the blades

Replacing the bottom blade



Switch the master switch off. Remove the mains plug from the power supply. The following work should only be carried out by specially trained personnel (Schleuniger representatives, the user's trained specialist personnel).

- Remove the cover together with the ejector shaft (Figure 12, Page 37).
- Remove the bottom blade together with the wedge (three M6 bolts with nuts) and clean the inside using a paintbrush and a vacuum cleaner attachment (Figure 17).
- Slightly oil the wedge and new or the resharpened blade and fit back both components.
- Move the wedge together with the pin fully to the left and *very slightly* tighten the screws.
- Press the bottom blade against the holder using a finger and slide the wedge as far as possible to the right (Figure 18, Page 41).

It is vital that you also read the test for Figure 19, Page 41!!

- Tighten the nuts.
- Move the upper blade up and down. The blades should just touch but not jam.
- Now carry out a manual cut on thin strips of paper across the whole width of the blade. The cut should always be even and sharp. If necessary, repeat the alignment procedure until the required cutting quality is achieved.
- Fit back the cover.
- Insert the mains plug into the power supply.



The blades may produce a poor cut in the middle. You can solve this problem using the socket head screw in the middle of the upper blade (Figure 18, Page 41):

- If the paper is only jammed in the middle of the blade and not cut then tighten the socket head screw slightly.
- If the blade jams in the middle then loosen the socket head screw slightly.

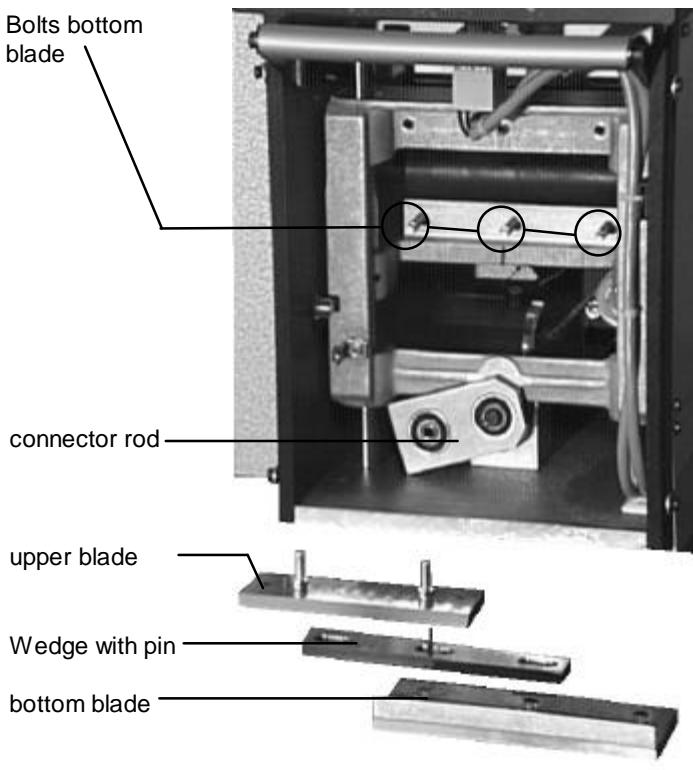


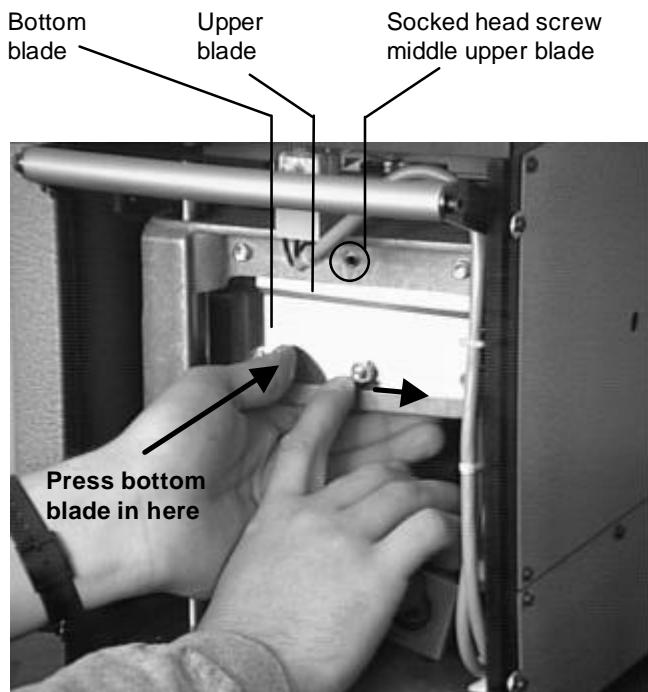
Figure 17. Replacing the bottom blade

Aligning the blades



Switch the master switch off. Remove the mains plug from the power supply. The following work must only be carried out by specially trained personnel (Schleuniger representatives, the user's trained specialist personnel).

- Remove the cover together with the ejector shaft (Figure 12, Page 37).
- Clean the inside using a paintbrush and vacuum cleaner attachment.
- Loosen three nuts on the bottom blade - do not remove (Figure 17, Page 40).
- Slide the wedge together with the pin fully to the left.
- Remove the upper screw on the connector rod. This is secured with a *lock nut* (Figure 15, Page 39).



Warning: The upper blade will now fall down!!

Figure 18. Aligning the blades

- Press the lower blade against the holder using a finger and slide the wedge as far as possible to the right (Figure 18).



The bottom blade must be kept in the vertical position when carrying out this alignment and should not be allowed to tilt on any account. Otherwise the lower blade will be pressed against the upper blade like a lever when the screws are tightened. This can damage the entire blade suspension. The bottom blade must therefore be pressed firmly in the holder.

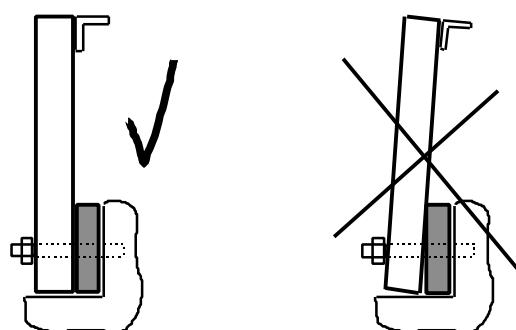


Figure 19. Fitting position of lower blade

- Tighten the nuts.
- Move the upper blade up and down. The blades should just touch but not jam.
- Now carry out a manual cut on thin strips of paper across the whole width of the blade. The cut should always be even and sharp. If necessary, repeat the alignment procedure until the required cutting quality is achieved.
- Fit back the cover.
- Insert the mains plug into the power supply.



The blades may produce a poor cut in the middle. You can solve this problem using the socket head screw in the middle of the upper blade (Figure 18, Page 41):

- If the paper is only jammed in the middle of the blade and not cut then tighten the socket head screw slightly.
- If the blade jams in the middle then loosen the socket head screw.

Special Settings

Unit of measure, changing the standard setting



Switch the master switch off. Remove the mains plug from the power supply. The following work must only be carried out by specially trained personnel (Schleuniger representatives, the user's trained specialist personnel).

- Remove the control panel (4 or 6 screws).

- On the rear of the control panel you will find two Dip switches next to the connector terminal J7. One is marked „mm“ and one „inch“ (Figure 20). Switch these switches to the desired unit of measure.

- Fit back the control panel.
- Insert the mains plug into the power supply.

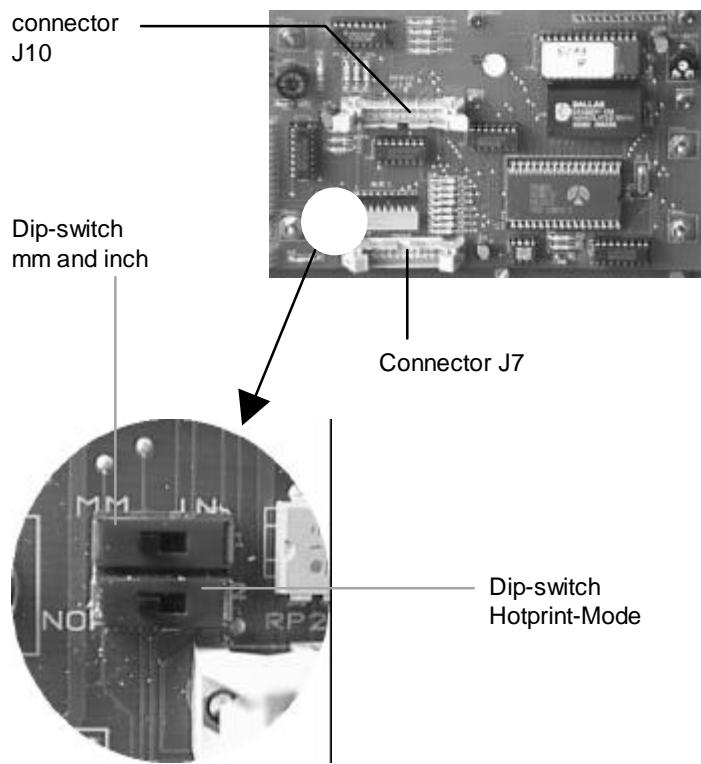


Figure 20. Setting the unit of measure

Making the Hotprint mode the standard setting



Switch the master switch off. Remove the mains plug from the power supply. The following work must only be carried out by specially trained personnel (Schleuniger representatives, the user's trained specialist personnel).

In order to make the Hotprint mode the standard setting proceed exactly as described above in the section entitled „Unit of measure, changing the standard setting“. See Figure 20 for the correct Dip switch.

Switching off the cable limit switch monitoring

Prior to and during processing a cable limit switch checks to see whether a cable has been inserted. If there is no cable in the automatic unit, or if all the cable has been processed, then the message **NO CABLE** appears in the display.

The monitoring can be switched off for trials carried out without material or on very thin material:

- Hold down both [speed] keys when switching on the automatic unit. (Or press [5] if the unit is already on).
- **CODE ?** appears in the display.
- Release the [speed] keys.
- Enter "30".
- First press [enter] then [STOP].
- Before starting processing open the feed rolls so they do not suffer any unnecessary wear and tear. To do this turn the T grip in the „UP“ direction.

To switch the monitoring back on you have to turn the master switch off and back on.

Troubleshooting, Fault Clearance, Repairs

Error messages in the display

Error message	Possible cause	Action
RAM ERROR	Error found in the memory	Switch off the CCM 1200, wait 10 secs. Then switch back on. If the error message reappears then the keyboard is faulty and must be replaced.
NO CABLE	There is no cable between the feed rolls. The compression pressure setting is incorrect.	Insert a cable into the automatic unit. Set the correct opening.
CUTTER IS BLOCKED	The material to be cut is too thick or too hard. The V-belt has been torn from the blade drive.	Remove material from the automatic unit. Replace the blade drive V-belt (Page 38).
CABLEFEEDER STOP	The connected prefeeder input is not working. The cable has become entangled and / or cannot be fed through smoothly.	Repair prefeeder input, connect correctly etc. Untangle the cable. It must be able to unwind smoothly.
SERVO IS BLOCKED	The feed is blocked.	Check the cable feed.
SET QUANTITY SET LENGTH	No value entered.	Enter the required quantity and / or length.
LENGTH OVERFLOW P- TOO LARGE	The corrected entry exceeds the permitted value.	The total length of length and correct + must be less than 999'999. The total length of length and correct - must be greater than 0.

Faults

Fault	Possible cause	Action
Poor cutting quality	Blades are blunt or defective. Blades are not properly aligned.	Align the blades as described on Page 41. (It obviously only makes sense to re-align the blades if they have no identifiable damage). If the cutting quality is still poor then the blades must be sharpened or replaced (Page 39).
The blade makes small, jerky movements when a [cut] command is given.		Replace the initiator.

Technical Data

Power supply	230 / 240 VAC, 50 / 60 Hz 100 / 115 VAC, 50 / 60 Hz 80 VA
Dimensions	67 x 26 x 33 cm (L x B x H) 26.37 x 10.23 x 12.99" (L x W x H)
Weight	28 kg (61.81 lbs)
Adjustable batch size	1 to 999 999 nos.
Adjustable cutting length	1 to 999 999 mm (1 to 9999.99")
Unit of measure	mm or inch
Feed speed	10 levels: 50 - 1200 mm / sec. (1.968 - 47.244" / sec)
Processable material dimensions	Round material maximum 10 mm external diameter Flat material maximum 120 mm wide
Noise level	< 75 dB(A)

Replacement Parts List

Quantity	Description	Article number
1	Bottom blade (Fig. 15, page 39)	302.1041
1	Upper blade (Fig. 15, page 39)	302.1042
1	Bottom feed roll	302.1026
1	Upper feed roll	302.1025
1	Cable guide right (Fig. 2, page 23)	302.1047
1	Cable guide left (fig. 2, page 23)	302.1048
1	Drive belt 100 XL 037 (Blade drive, Fig. 13, page 38)	254.0000
1	Drive belt (Twin Power) 170 XL 037 TP (Fig. 12, page 37)	254.0001
1	Drive belt HTD 345-3M-6 HTD (Fig. 12, page 37).	254.0002

Options

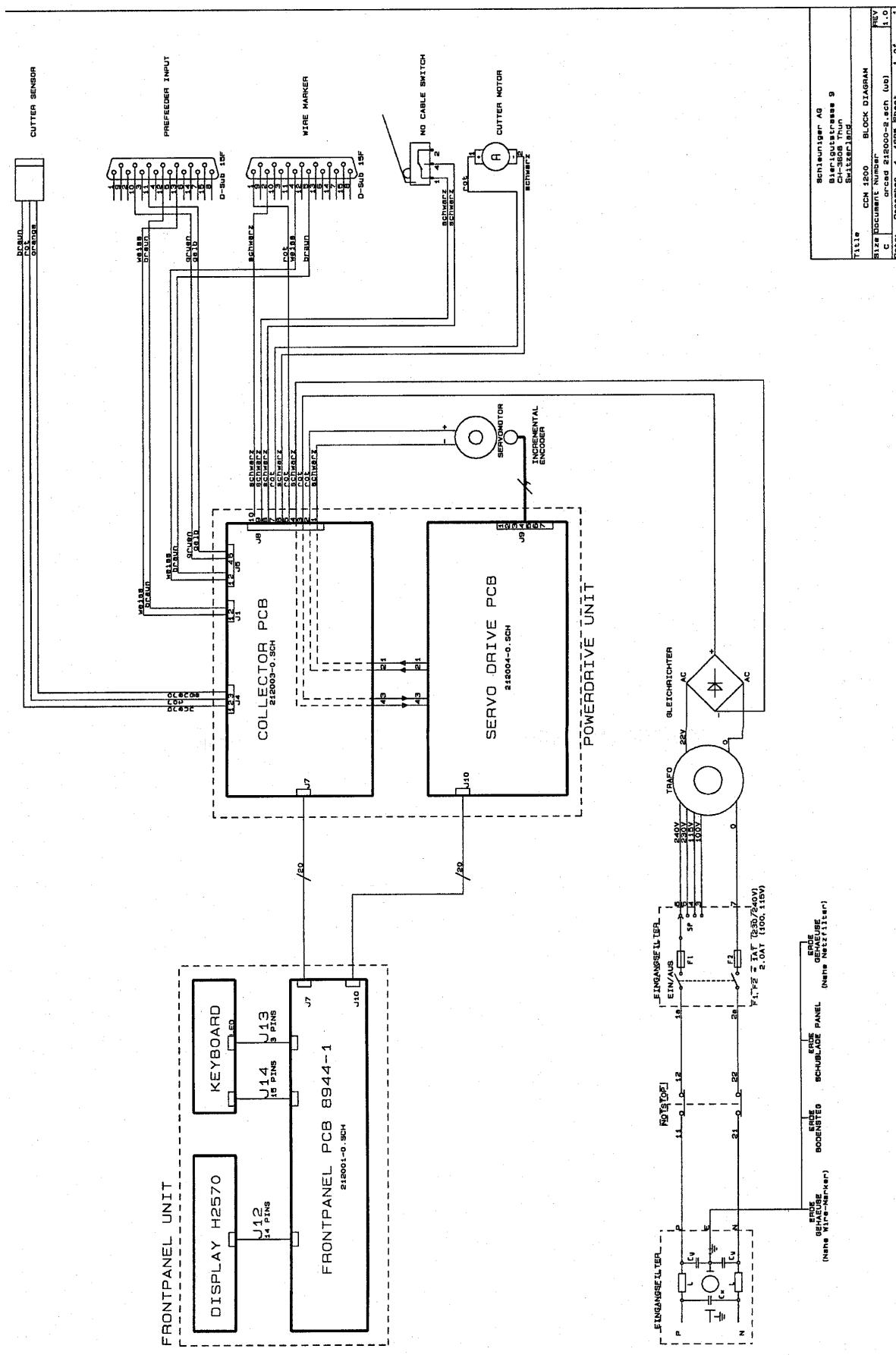
Quantity	Description	Article number
1	Cableend switch for CCM 1200	402.1004
1	Bottom blade carbide	302.1001
1	Upper blade carbide	302.1033
1	Cable guide left, extended	302.1049
1	Cable guide right, extended	302.1050

Appendix

Display Languages Comparison Table

english	deutsch	italiano	français
CCM 1200.B	CCM 1200.B	CCM 1200.B	CCM 1200.B
CCM 1200.B mm	CCM 1200.B mm	CCM 1200.B mm	CCM 1200.B mm
CABLEFEEDER STOP	ABROLLER STOP	DEROULEUR STOP	STOP ALIMENT
NO PROTECT	KEIN SCHUTZ	ABSENCE CARTIER	MANCA PROTEZIONE
P- TOO LARGE	P- ZU LANG	C- TROP GRANDE	C- TROPPO LUNGO
NO CABLE	KEIN KABEL	ABSENCE CABLE	MANCA FILO
END OF PROGRAM	PROGRAMMENDE	FIN DE PROGRAMME	FINE PROGRAMMA
LENGTH OVERFLOW	GESAMTL. ZU LANG	LONG. TROP GRAND	FUORI LUNGHEZZA
BREAK	UNTERBRUCH	PAUSE	INTERRUNZIONE
µP - RAM ERROR	µP - RAM FEHLER	ERREUR MEMOIRE	µP - ERRORE DI RAM
SET QUANTITY	ANZAHL EINGEBEN	ENTREE PIECES	INSERIRE N. PEZZI
SET LENGTH	LAENGE EINGEBEN	ENTREE LONGUEUR	INSERIRE LUNGHEZ
QUANTITY ?	ANZAHL ?	PIECES ?	PEZZI ?
LENGTH ?	LAENGE ?	LONGUEUR ?	LUNGHEZ ?
PRINT 0/1 ?	PRAEG. 0/1 ?	PRINT 0/1 ?	STAMPA 0/1 ?
BEGIN ?	ANFANG ?	DEBUT ?	INIZIO ?
END ?	ENDE ?	FIN ?	FINE ?
BETWEEN ?	FORTL. ?	INTERVAL ?	INTERM ?
BATCH ?	T. SUMME ?	LOT. ?	LOT. PARZ. ?
TOTALCUT	TOTAL STK.	PROD. TOT.	LOT. TOTAL
PRTIME ?	PRQEGEZ. ?	PRTEMPS ?	TEMPORIZ ?
TURN UP	HOCHDREHEN	TOURNE UP	GIRARE SU
TURN DOWN	RUNTERDREHEN	TOURNE DOWN	GRARE GIU
CODE ?	CODE ?	CODE ?	CODE ?
SEVO IS BLOCKED	SEVO BLOCKIERT	SERVO BLOQUE	BLOCCO DEL SERVO
CORRECT + ?	KORR. + ?	CORR. + ?	CORR. + ?
CORRECT - ?	KORR. - ?	CORR - ?	CORR - ?
HOTPRINT MODE	PRAEGE MODUS	PRINT MODE	MODO STAMPA
LENGTH TO SHORT	LAENGE ZU KURZ	LONG. TROP COURT	LUNGHEZZA CORTA
END OF BATCH	ENDE TEILSUMME	FIN DE LOT.	FINE LOTTO PARZ.
KNIFE IS BLOCKED	MESSER BLOCKIERT	COUTEAU BLOQUE	COLTELLO BLOC.
DISTANCE ?	DISTANZ ?	DISTANCE ?	DISTANZA ?

Electrical Diagramm



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